What Is Claimed Is:

1. An actuator which transforms rotational driving force of a rotational driving source into a linear motion through a driving force transmitter and moves a slider axially to transport a workpiece,

the actuator comprising:

a body in which the driving force transmitter is located;

a slider which is partially exposed from a slit extending along the length of the body and moves along the axis of the body;

a pair of magnetic bodies which extend along the slit by a prescribed length and face each other with the slider between them; and

a magnetic fluid which is held between the pair of magnetic bodies, closing the slit, and is split by the slider as the slider moves.

2. The actuator as claimed in Claim 1, wherein a slit is provided between a first cover of the body and a second cover which is located away from the first cover by a prescribed distance virtually vertically.